

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533475

Luminaire Tested: **GALN-SA8D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34101 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

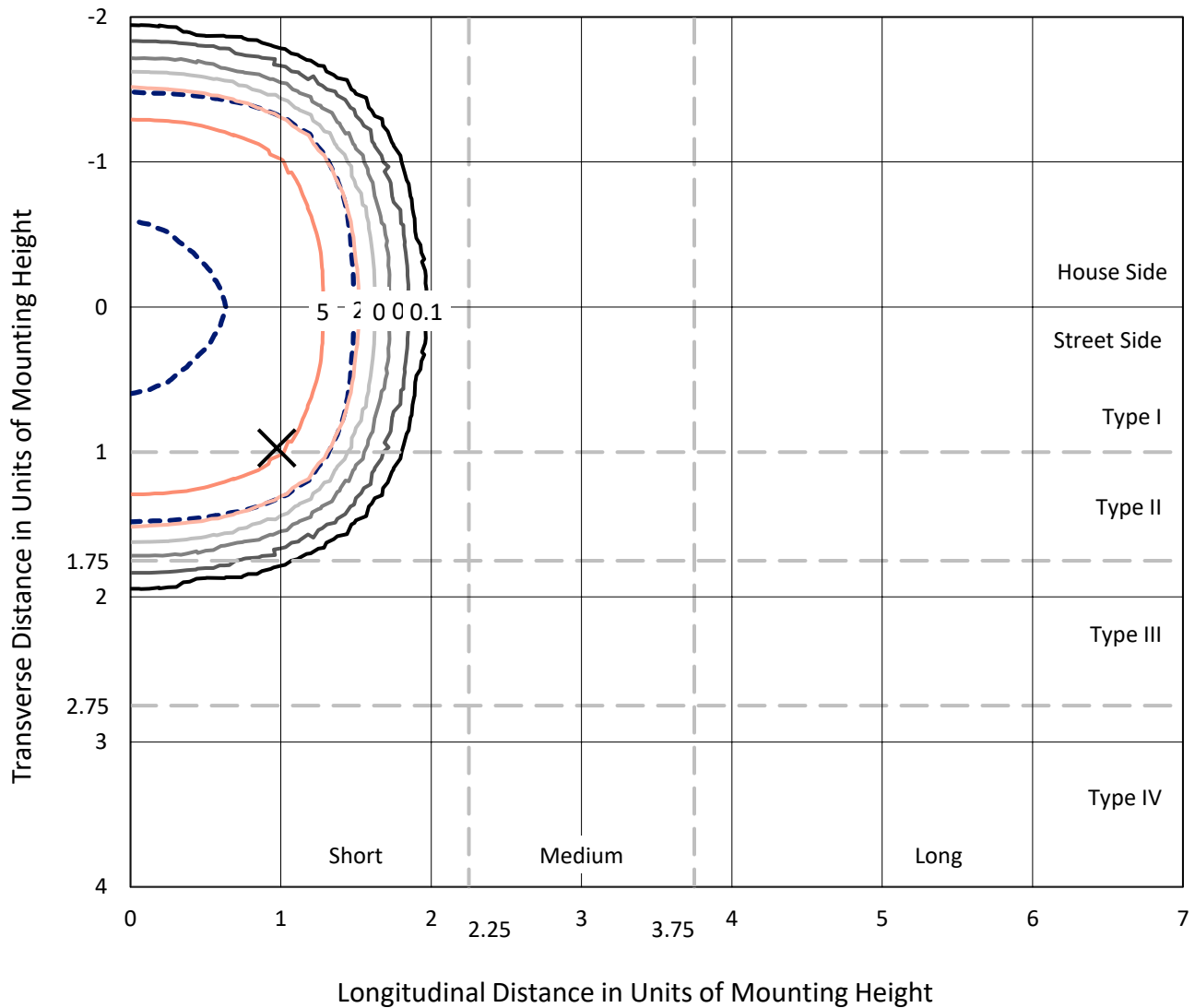


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Iso-Footcandle Lines of Horizontal Illumination

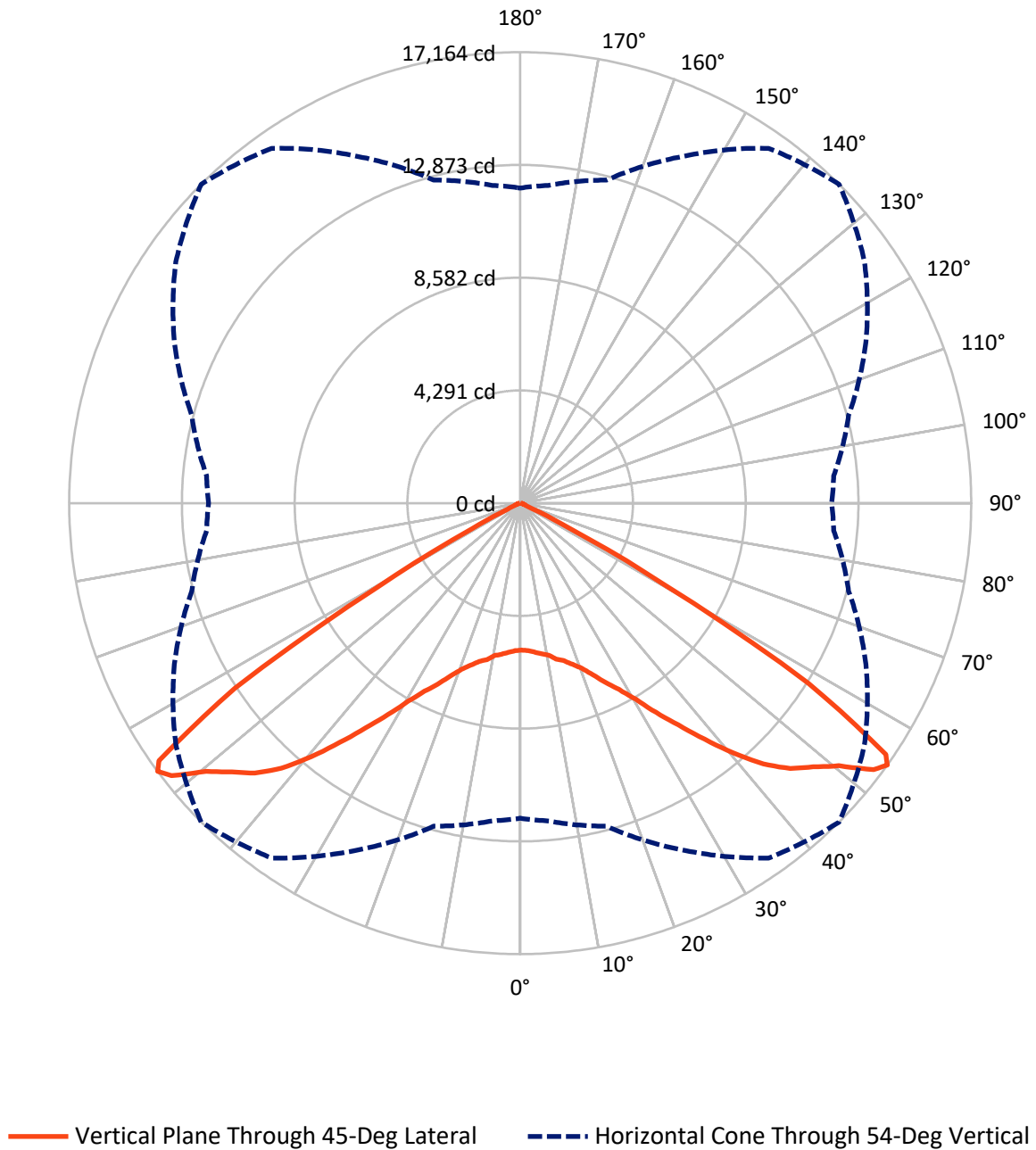
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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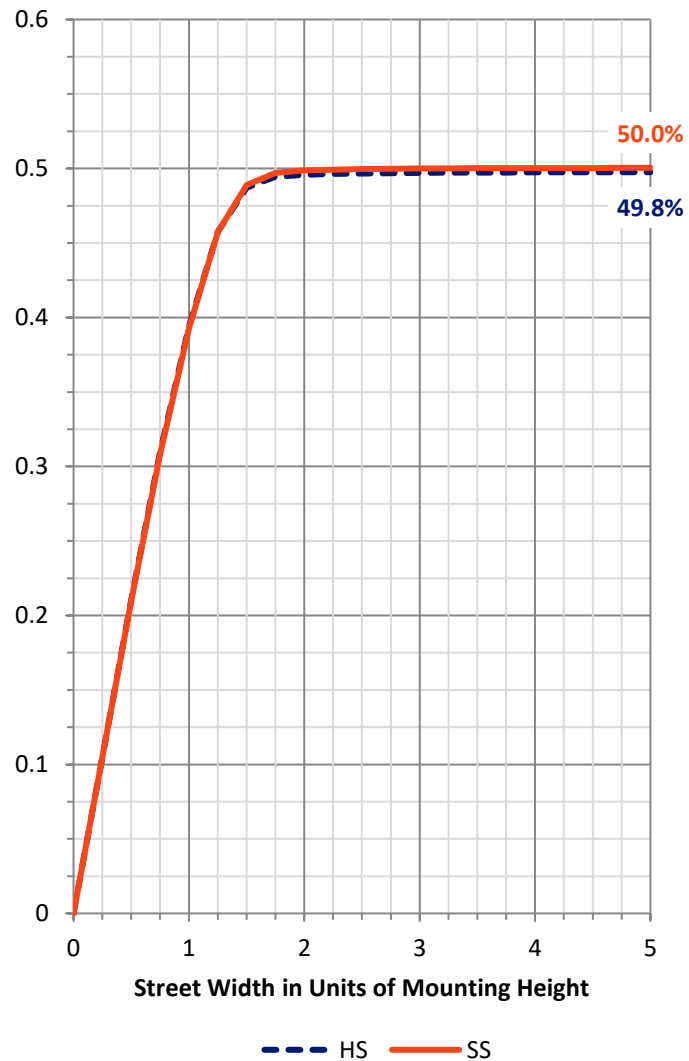
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17050.5	0.0	17050.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17050.5	0.0	17050.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34101.0	0.0	34101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	1.6
10°-20°	1772.3	5.2
20°-30°	3473.6	10.2
30°-40°	6246.2	18.3
40°-50°	10692.3	31.4
50°-60°	10345.8	30.3
60°-70°	885.6	2.6
70°-80°	105.0	0.3
80°-90°	32.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34101.0	100.0
0°-180°	34101.0	100.0

Coefficient of Utilization



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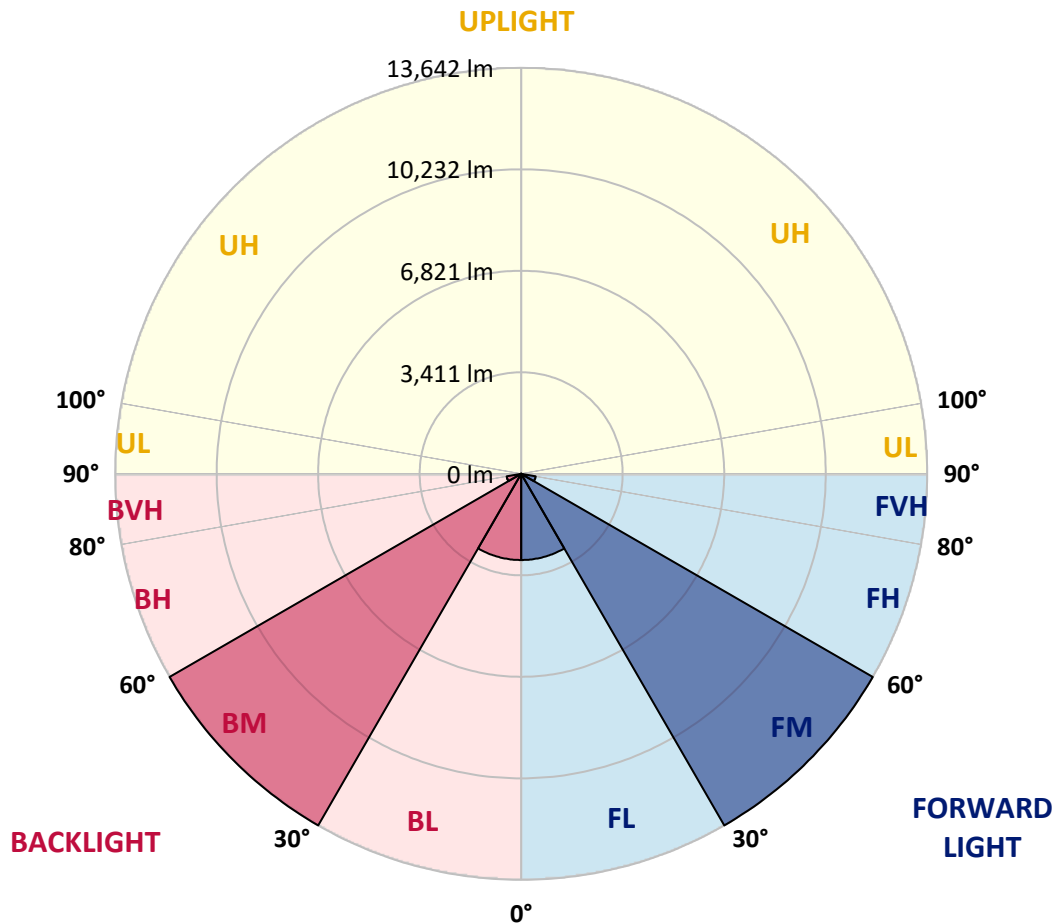
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2896.6	8.5			
FM	(30°-60°)	13642.2	40.0			
FH	(60°-80°)	495.3	1.5			G0/660
FVH	(80°-90°)	16.5	0.0			G1/100
BL	(0°-30°)	2896.6	8.5	B4/5000		
BM	(30°-60°)	13642.2	40.0	B5		
BH	(60°-80°)	495.3	1.5	B1/500		G0/660
BVH	(80°-90°)	16.5	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5	5591.5
2.5°	5618.5	5650.9	5629.3	5645.5	5645.5	5618.5	5634.7	5569.9	5613.1	5580.7	5586.1
5°	5705.0	5699.5	5699.5	5705.0	5683.3	5694.1	5672.5	5650.9	5634.7	5613.1	5677.9
7.5°	5813.0	5813.0	5775.2	5786.0	5775.2	5791.4	5748.2	5705.0	5688.7	5672.5	5661.7
10°	5915.6	5904.8	5888.6	5937.3	5899.4	5877.8	5856.2	5829.2	5769.8	5748.2	5726.6
12.5°	6066.9	6061.5	6039.9	6088.5	6066.9	6088.5	6007.5	5937.3	5926.5	5856.2	5894.0
15°	6245.2	6293.8	6256.0	6256.0	6245.2	6218.2	6185.8	6153.4	6056.1	6029.1	6034.5
17.5°	6477.5	6461.3	6466.7	6466.7	6520.7	6450.5	6385.7	6304.6	6256.0	6239.8	6185.8
20°	6699.0	6720.6	6715.2	6753.0	6785.4	6709.8	6639.6	6628.8	6493.7	6515.3	6439.7
22.5°	7088.0	7071.8	7098.8	7125.8	7104.2	7093.4	7028.5	6947.5	6828.7	6774.6	6763.8
25°	7498.6	7471.5	7422.9	7487.7	7520.2	7568.8	7444.5	7401.3	7217.6	7136.6	7142.0
27.5°	7849.7	7887.5	7941.6	7968.6	8049.6	8033.4	7947.0	7806.5	7666.0	7574.2	7514.8
30°	8330.5	8352.1	8444.0	8481.8	8622.3	8660.1	8525.0	8362.9	8114.4	7995.6	7925.3
32.5°	8773.5	8924.8	8919.4	9108.5	9335.4	9492.0	9248.9	9000.4	8751.9	8611.5	8487.2
35°	9492.0	9465.0	9621.7	9821.6	10189.0	10367.2	10102.5	9816.2	9438.0	9211.1	9113.9
37.5°	10161.9	10172.8	10383.4	10702.2	11123.6	11399.1	11166.8	10696.8	10307.8	10016.1	9881.0
40°	11134.4	11156.0	11372.1	11734.0	12209.5	12506.6	12236.5	11761.1	11242.4	11015.5	11015.5
42.5°	12274.3	12366.1	12506.6	12819.9	13246.7	13576.3	13333.2	12960.4	12436.4	12144.6	12187.9
45°	13446.6	13489.8	13581.7	14046.3	14246.2	14408.2	14181.3	14008.5	13657.3	13300.8	13241.3
47.5°	14543.3	14559.5	14829.6	14975.5	15132.2	14997.1	15143.0	14916.1	14521.7	14175.9	14105.7
50°	15029.5	15002.5	15386.1	15829.1	15947.9	15710.2	15586.0	15434.7	14835.0	14419.1	14235.4
52.5°	13614.1	13770.8	14483.9	15715.6	16644.8	16844.7	16120.8	15423.9	14305.6	13495.2	13371.0
54°	11993.4	12139.2	12728.1	14554.1	16488.2	17163.5	15996.6	14516.3	12938.8	11977.2	11852.9
55°	10388.8	10226.8	11296.5	13160.3	15753.4	16882.6	15504.9	13344.0	11539.6	10659.0	10486.1
57.5°	5623.9	5650.9	6553.1	8314.3	11069.6	12944.2	11431.5	9027.4	6817.9	5829.2	5742.8
60°	1782.8	1826.0	2220.4	3360.3	5289.0	6315.4	5413.2	3625.0	2506.7	2009.7	1928.7
62.5°	556.4	578.1	632.1	940.0	1447.8	2069.1	1620.7	972.4	723.9	664.5	675.3
65°	340.4	340.4	345.8	367.4	432.2	502.4	486.2	426.8	410.6	399.8	394.4
67.5°	221.5	216.1	226.9	243.1	253.9	259.3	275.5	291.7	286.3	275.5	275.5
70°	135.1	129.7	140.5	162.1	167.5	178.3	194.5	216.1	210.7	199.9	205.3
72.5°	75.6	75.6	81.0	97.2	113.5	124.3	140.5	156.7	162.1	156.7	156.7
75°	27.0	32.4	43.2	59.4	70.2	86.4	102.6	118.9	135.1	124.3	118.9
77.5°	10.8	10.8	21.6	37.8	54.0	70.2	97.2	113.5	124.3	113.5	102.6
80°	5.4	5.4	16.2	32.4	48.6	64.8	81.0	97.2	102.6	91.8	81.0
82.5°	5.4	5.4	16.2	32.4	48.6	59.4	86.4	97.2	108.0	97.2	81.0
85°	0.0	5.4	16.2	32.4	43.2	48.6	48.6	32.4	27.0	16.2	16.2
87.5°	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)